#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit: 2836

Carles Borrego Bel et al.

Examiner: Dru Parries

Serial No.: 10/707,922

Filed: January 26, 2004

For: ELECTRICAL DISTRIBUTION SYSTEM AND METHOD FOR A VEHICLE

WITH TWO NETWORKS HAVING DIFFERENT VOLTAGE LEVELS

Docket No.: LEAR 8136ES PUSA

#### REPLY BRIEF UNDER 37 C.F.R. § 41.41

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Sir:

This Reply Brief is in response to the Examiner's Answer mailed on February 23, 2009 for the above-identified patent application.

#### VII. ARGUMENT

A. Claims 16-21, 23-26, and 28 Stand Rejected Under 35 U.S.C. § 103(a) as Being Unpatentable Over *Pinas et al.*, *Maeda* and *Schaal* 

Claims 16-21, 23-26, and 28 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Pinas et al.* U.S. Patent No. 6,507,506, in view of *Maeda* U.S. Patent No. 6,340,848, and *Schaal* U.S. Patent No. 5,625,546.

#### 1. Claim 16 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The Examiner agrees that the inverters of *Schaal* are not the same as the presently claimed first and second DC/DC converters (see Examiner's Answer pp.6, §10, ll. 22 - pp. 7, §10, ll. 1). The Examiner states that "the combined invention teaches a plurality of DC/DC converters powering a plurality of loads via **the method taught in Schaal** [*sic*]." (*See*, Examiner's Answer pp. 7, §10, ll. 3-5, emphasis added).

The Examiner further states:

It also would have been obvious to one or ordinary skill in the art at the time of the invention to implement Schaal's [sic] plurality of DC/DC converters in each of the distribution boxes and his method of supplying power to each load to be able to supply the exact right amount of power to each load at any given time and subsequently minimize power losses and in turn save money.

(See, Examiner's Answer, pp. 4, §3, ll. 18-22, emphasis added)

Schaal's method is incapable of being added to *Pinas et al. Schaal* provides "[a] method for allocating at least one static inverter to at least one load [.]" (See, col. 13, ll. 45-47). In particular, Schaal's method provides for connecting a plurality of static inverters (1, 2, 3) to a load (61, 71) so that such a load (61, 71) is supplied with an AC based output (or current). (See, col. 13, ll. 47-50 and Figure 1-2). Because Schaal's method requires that the load (62, 72) receive the AC based output, Schaal's method cannot be combined with Pinas et al. and Maeda without rendering the operation of Pinas et al. and/or Maeda inoperable for their intended purpose. For example, loads coupled to the DC/DC converters of Pinas et al. and/or Maeda require DC based signals to operate as intended, not AC based signals as provided in Schaal's method. Therefore, the Examiner's rationale to add Schaal's method to Pinas et al. and/or Maeda is not predictable and renders the operation of Pinas et al. and/or Maeda unsatisfactory for their intended purpose. In re Gordon, 733 F.2d at 900. Further, the proposed addition of Schaal's method to the architectures

of *Pinas et al.* and *Maeda* provide no reasonable expectation of success. *In re Rinehart*, 532 F.2d at 1048. For at least these reasons, claim 16 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

#### 2. Claim 17 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 17.

For at least these reasons, claim 17 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

### 3. Claim 18 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 18.

For at least these reasons, claim 18 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

#### 4. Claim 19 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 19.

For at least these reasons, claim 19 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

#### 5. Claim 20 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 20.

For at least these reasons, claim 20 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

# 6. Claim 23 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 23.

For at least these reasons, claim 23 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

#### 7. Claim 24 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 24.

For at least these reasons, claim 24 is patentable over the proposed combination of *Pinas et al.*, *Maeda*, and *Schaal*.

# 8. Claim 25 Is Separately Patentable Under 35 U.S.C. § 103(a) Over *Pinas et al.*, *Maeda*, and *Schaal*

The above arguments presented in connection with claim 16 apply to claim 25.

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For at least these reasons, claim 25 is patentable over the proposed combination of

Pinas et al., Maeda, and Schaal.

9. Claim 28 Is Separately Patentable Under

35 U.S.C. § 103(a) Over Pinas et al., Maeda, and Schaal

The above arguments presented above in connection with claim 16 apply to claim

28.

For at least these reasons, claim 28 is patentable over the proposed combination of

Pinas et al., Maeda, and Schaal.

Accordingly, it is respectfully requested that this rejection be reversed.

Respectfully submitted,

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